Development of Effluent Limitations

Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
CBOD ₅	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
CBOD5	50	IMax	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
Solids	60	IMax	133.102(b)(2)	92a.47(a)(2)
pH	6.0 – 9.0 S.U.	IMin – IMax	133.102(c)	95.2(1)
Fecal Coliform				
(5/1 - 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
Fecal Coliform				
(5/1 - 9/30)	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform				
(10/1 - 4/30)	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
Fecal Coliform				
(10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
				92a.48(b)(1) &
	0.5	Average Monthly		TRC Implementation
Total Residual Chlorine	1.4	IMAX	-	Guidance
Total Nitrogen	Report	Daily Max	-	92a.61
Total Phosphorous	Report	Daily Max	-	92a.61

Comments: For TRC limits, consideration is given to the length of swale to Unnamed Tributary to Wolf Run. From swale to Unnamed Tributary, it is approximately 800 feet for the discharge to travel before it reaches the confluence. It is considered enough distance of a swale for TRC in the discharge to dissipate before it reaches the stream. Also, the given limits are acceptable based on the Regulation in Chapter 92.48(b)(1), TRC Implementation Guidance 391-2000-015/ May 1, 2003 and an internal memo on TRC Implementation for Sewage Facilities dated June 20, 1995.

The following limitations were determined through water quality modeling (output files attached):

Parameter	Limit (mg/l)	SBC	Model
Ammonia-Nitrogen	2.1	Average Monthly	
	4.2	IMAX	
May 1 to Oct 31	4.4	Average Monthly	
Nov 1 to Apr 30	8.8	IMAX	WQM6.3
Dissolved Oxygen	5.0	Instant. Minimum	WQM6.3

Compliance History		
Summary of DMRs:	A review of the Discharge Monitoring Report indicates general compliance with some minor effluent excursions.	
Summary of Inspections:	A review of the inspection reports indicates general compliance with plant being maintained.	

	Discharge, Receiving Waters	and Water Supply Informa	tion
	0' 8.00" Iland otion: Treated sanitary sewage from	Design Flow (MGD) Longitude Quad Code n a High School	0.032 80° 25' 25.00" 1302
Receiving Waters NHD Com ID Drainage Area (sq.mi.) Q ₇₋₁₀ Flow (cfs) Elevation (ft) Watershed No. Existing Use Exceptions to Use Assessment Status	Swale to Unnamed Tributary of Wolf Run 99680454 0.1 for swale, 0.2 for UT 0 for swale, 0.0054 for UT 20-B Attaining Use(s)	Stream Code RMI Yield (cfs/mi²) Q ₇₋₁₀ Basis Slope (ft/ft) Chapter 93 Class. Existing Use Qualifier Exceptions to Criteria	None for swale For UNT 33532 UNT 0.53 0 for swale, 0.027 for UT Previous Pollution Report WWF
Cause(s) of Impairm Source(s) of Impairm TMDL Status		Name	

Treatment Facility Summary

Treatment Facility Name: Western Beaver Jr/Sr High School STP

WQM Permit No.	Issuance Date
9113-S	8/25/1958

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
	Secondary with			
Sewage	Ammonia Removal	Extended Aeration	Chlorination	0.004
.	7			0.00 .
J.		2.00.000.000.000		
Hydraulic Capacity	Organic Capacity			Biosolids
J		Load Status	Biosolids Treatment	